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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,595	11/21/2003	Joichiro Ezaki	245646US2	8684
22850	7590	05/03/2005	EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.				TRAN, MICHAEL THANH
1940 DUKE STREET				
ALEXANDRIA, VA 22314				
				ART UNIT
				PAPER NUMBER
				2827

DATE MAILED: 05/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/717,595	EZAKI ET AL.
	Examiner	Art Unit
	Michael t. Tran	2827

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

Disposition of Claims

4) Claim(s) 1-39 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 32-39 is/are allowed.

6) Claim(s) 1 and 30 is/are rejected.

7) Claim(s) 2-29 and 31 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 022304&100404

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ .

5) Notice of Informal Patent Application

6) Other: _____ .

TRAN



DETAILED ACTION

1. In response to the Communications dated November 21, 2003 through October 04, 2004, claims 1-39 are active in this application.

Foreign Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a) (d), which papers have been placed of record in the file.

Information Disclosure Statement

3. The information disclosure statements filed February 23, 2004 and October 04, 2004 have been considered.

Claim Objections

4. Claims 2-29 and 31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections – 35 U.S.C. § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102

that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in–

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

6. Claims 1 and 30 are rejected under 35 U.S.C 102(e) as being anticipated by Gill [U.S. Patent #6,515,838].

With respect to claim 1, Gill discloses a magnetic memory device comprising: a magneto-resistance effect element [figure 5] including a magnetic sensitive layer [414] whose magnetization direction changes according to an external magnetic field; a write line [328] to which a write current is supplied to apply the external magnetic field to the magnetic sensitive layer; and a write current drive circuit [329] including a current direction control section for controlling the direction of the write current in said write line and a current amount control section for controlling the amount of the write current in said write line to a constant value.

With respect to claim 30, Gill discloses that one storage cell comprises a pair of the magneto-resistance effect elements [free and pinned layers of figure 5].

7. Claims 32-39 are allowable over the prior art of record.
8. The following is an Examiner's statement of reasons for the indication of allowable subject matter: the prior art of records does not show (in addition to the other elements in the claim) the following:
 - Wherein the current direction control section selects one of both ends of said write line to which current is to be supplied as an inflow side of the write current and the other as an outflow side, thereby controlling the direction of the write current.
 - Wherein the current amount control section is provided on the path of the write current flowing out from said write line.
 - A toroidal magnetic layer being disposed on one face of the layered product so that the direction along the deposition face is an axial direction and penetrated by said write line.
 - Wherein the magnetization directions of the magnetic sensitive layers in the pair of the magneto-resistance effect elements change so as to become antiparallel with each other according to magnetic fields induced to currents flowing through the first and second write lines and information is stored in the storage cell.
 - A pair of connection ends to which both ends of the write line are connected.
 - Selecting one of both ends of the write line to which current is to be supplied as an inflow side of the write current and the other as an outflow side, thereby controlling the direction of the write current.

Conclusion

9. When responding to the Office action, Applicants are advised to provide the Examiner with line and page numbers of the application and/or references cited to assist the Examiner in the prosecution of this case.

10. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Michael T. Tran whose telephone number is (571) 272-1795. The Examiner can normally be reached on Monday-Thursday from 7:30-6:00 P.M.

11. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-1650.



Michael T. Tran
Art Unit 2827
April 26, 2005

**MICHAEL TRAN
PRIMARY EXAMINER**